

**ABSTRACT**

In the digital-to-analog conversion of an audio signal, a digital audio signal that comprises a plurality of digitally quantized samples of an audio stream is received. The digital audio signal is evaluated to convert the digitally quantized samples into analog samples, and an analog audio signal is generated to contain the analog samples and correspond to the audio stream. Current-to-voltage conversion is performed on the analog audio signal. The digital audio signal can be evaluated absent oversampling. Also, electrical DC power can be chemically generated, such as by a battery, to power one or more of the evaluation of the digital audio signal, generation of the analog audio signal, or current-to-voltage conversion of the analog audio signal.